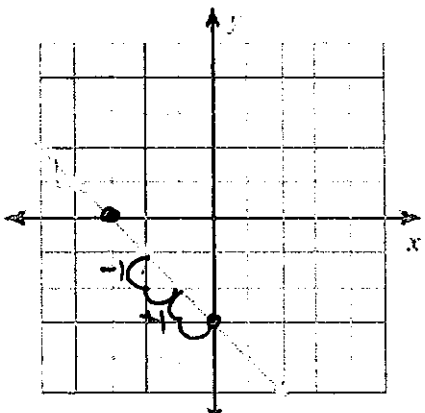
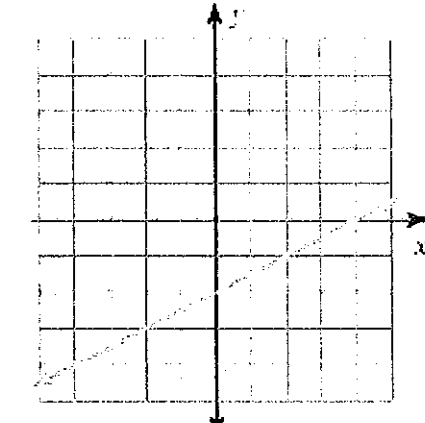
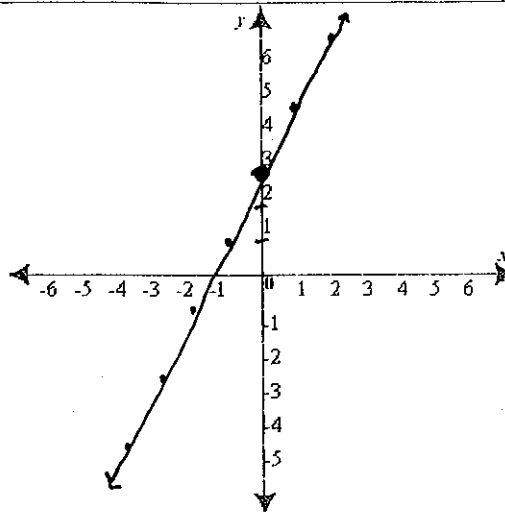


Problem	Work and answer - Please circle your final answer!
<p>Identify the slope, x-intercept and y-intercept given this graph.</p> 	<p>Slope: -1 $-\frac{3}{3}$</p> <p>y-intercept: -3</p> <p>x-intercept: -3</p>
<p>2) Find the slope of this line given its graph.</p> 	<p>Slope = Rise/ run</p> <p>Rise over run</p> <p>Rise: 2</p> <p>Run: 4</p> <p>Final slope: $\frac{2}{4} = \frac{1}{2}$</p>
<p>3) Two points on a line are (1,5) and (10,8). Find the slope of this line.</p>	<p>Slope: $m = \frac{8-5}{10-1} = \frac{3}{9} = \frac{1}{3}$</p> <p>$m = \frac{y_2 - y_1}{x_2 - x_1}$</p>
<p>4) What are the slope and y-intercept of this equation? $y = 13x + 0.5$</p>	<p>Slope: 13</p> <p>y-intercept: $.5$</p>

5) Using slope-intercept form, graph the equation $y = 2x + 3$.

$m = \text{slope} = 2$

$b = \text{y-intercept} = 3$

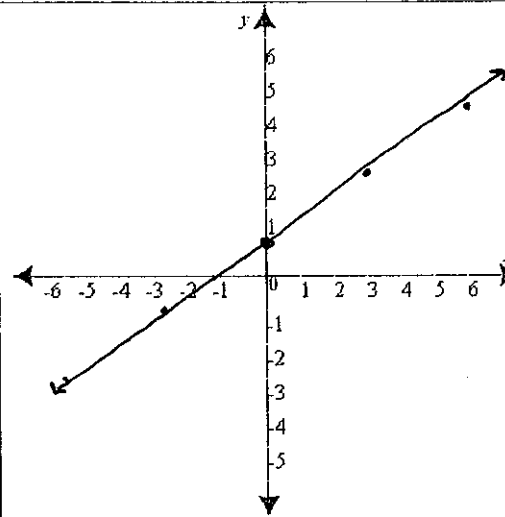


6) Using slope-intercept form, graph the equation

$y = \frac{2}{3}x + 1$.

$m = \text{slope} =$

$b = \text{y-intercept} =$



7) Using point-slope form, graph the equation $y - 4 = -2(x + 1)$.

Slope = -2

Point = ~~(4, 4)~~ $(-1, 4)$

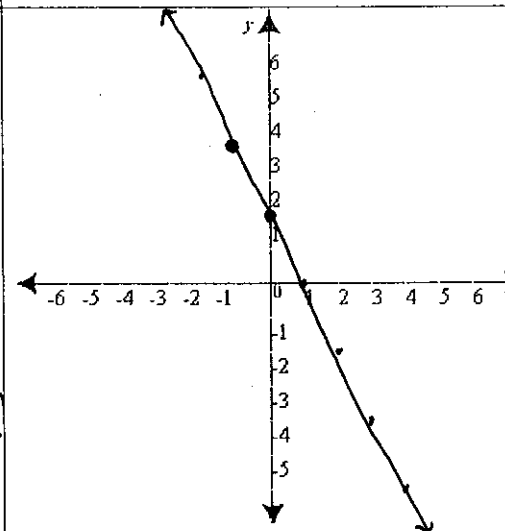
↳ on your test,
you can convert
anything to $y = mx + b$

$$y - 4 = -2(x + 1)$$

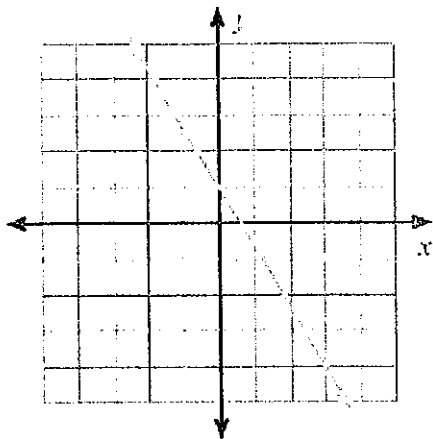
$$y - 4 = -2x - 2$$

$$\begin{array}{r} y - 4 = -2x - 2 \\ +4 \quad \quad +4 \\ \hline y = -2x + 2 \end{array}$$

$$y = -2x + 2$$



8) What is the equation of this line in slope-intercept form?



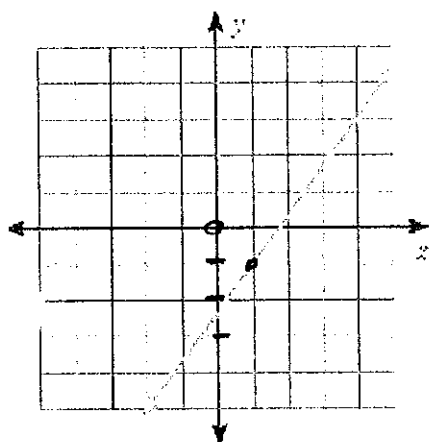
y-intercept = $b = 1$

slope = $m = -\frac{5}{3}$

Equation:

$$y = -\frac{5}{3}x + 1$$

9) What is the equation of this line in slope intercept form?



Slope = $m =$

*

Another point:

Possible :

Equation:

$$y = \frac{4}{3}x - 2.5$$

$$y - (-1) = \frac{4}{3}(x - 1)$$

10) Change the following equation to slope intercept form.

$$10x - 2y = 30$$

Identify the slope and y-intercept.

$$\begin{array}{r} 10x - 2y = 30 \\ -10x \quad -10x \\ \hline -2y = 30 - 10x \\ \frac{-2y}{-2} = \frac{30 - 10x}{-2} \end{array}$$

Equation:

Slope: 5

y-intercept: -15

$$y = -15 + 5x$$

